

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/088382 A1**

(51) International Patent Classification<sup>7</sup>: **G02B 6/44**

(21) International Application Number:  
PCT/GB2004/001370

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0307394.7 31 March 2003 (31.03.2003) GB  
0322490.4 25 September 2003 (25.09.2003) GB

(71) Applicant (for all designated States except US): **BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY** [GB/GB]; 81 Newgate Street, Greater London, London EC1A 7AJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BARKER, Phillip,**

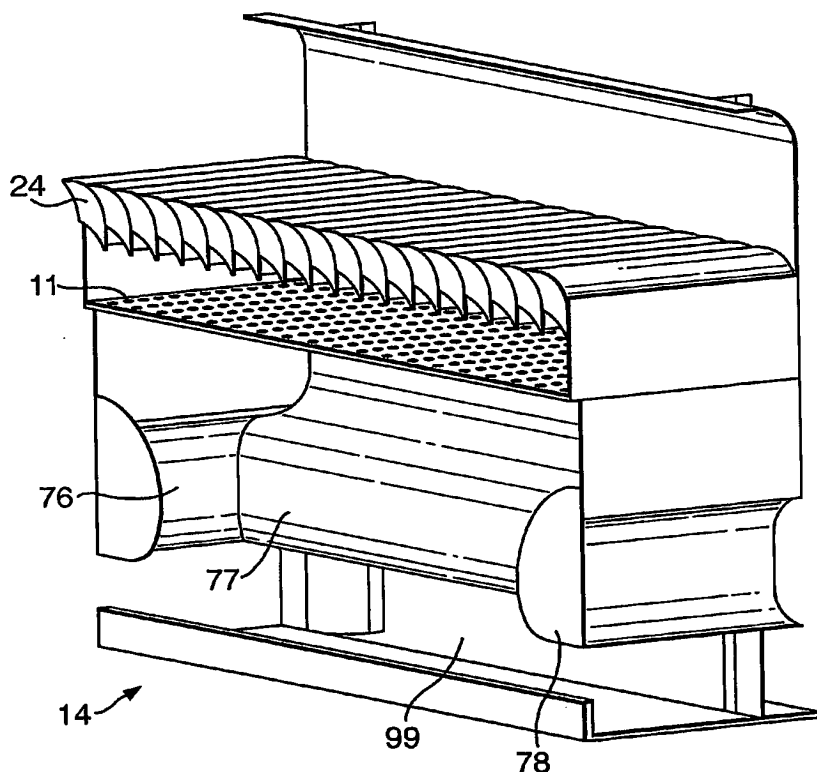
Alfred [GB/GB]; 58 Meadowlands, Kirton, Ipswich, Suffolk IP10 0PP (GB). **KERRY, John** [GB/GB]; 4 The Grove, Martlesham Heath, Ipswich, Suffolk IP5 3UZ (GB). **TAYLOR, Christopher, Charles** [GB/GB]; 29 Haycroft Close, Bishops Cleeve, Cheltenham, Gloucestershire GL52 8SR (GB).

(74) Agent: **ROBERTS, Simon, Christopher**; BT Group Legal Intellectual Property Department, PP: C5A, BT Centre, 81 Newgate Street, Greater London, London EC1A 7AJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: OPTICAL FIBER CABLE DISTRIBUTION FRAME



(57) Abstract: A telecommunication distribution frames comprising a switch connected to an optical fibre of an incoming cable, terminated at a primary flexibility suite, via a secondary flexibility suite, where the primary and secondary flexibility suites include means for routing joined blown fibre tubes within the installation. A continuous blown fibre unit extending through the joined blown fibre tubes. A blown fibre tube flexibility module (14) has a patching panel (11), which may be provided with connectors. Above the panel (11) are a set of bend control vanes or mandrels (24), one for each of the connector sites in the panel. Patching tubes may pass down and out through the aperture (99) at the back of the module.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*